

Title (en)

Closed circuit television system having seamless interactive television programming and expandable user participation.

Title (de)

Betriebsfernsehsystem mit nahtloser interaktiver Fernsehprogrammierung und mit erweiterungsfähiger Teilnahme.

Title (fr)

Système de télévision en circuit fermé avec programmation de télévision interactive sans jonction et avec participation d'utilisateur extensible.

Publication

**EP 0314572 A2 19890503 (EN)**

Application

**EP 88402701 A 19881026**

Priority

US 11301787 A 19871026

Abstract (en)

A closed circuit interactive television system (10) provides a multichannel television signal from a localized head end (12) which is used for individualized interactive selections by a plurality of users (22, 24, 26). Each user station contains a conventional television receiver (32a, 32b, 32c) and a smart box or interface and selection device (30a, 30b, 30c). The smart box or interface and selection device (30) is disposed between the television receiver (32) and the RF distribution amplifier (36). The number of user stations (22, 24, 26) on the system (10) is virtually unlimited. The system (10) provides the audio/video television signals (14, 16, 18, 20) in at least frame accurate synchronization to enable seamless video switching between channels, which seamlessness is enhanced through the view of a pair of tuners in the interface selection box (30a, 30b, 30c) which are alternately commanded to pretune to the channel of the next actual choice made prior to the changeover under control of a microprocessor in response to command signals embedded in the television signals being received.

IPC 1-7

**H04N 7/16**

IPC 8 full level

**G09B 5/06** (2006.01); **G09B 7/04** (2006.01); **H04H 20/38** (2008.01); **H04H 20/63** (2008.01); **H04H 20/78** (2008.01); **H04H 60/13** (2008.01); **H04H 60/33** (2008.01); **H04N 7/14** (2006.01); **H04N 7/16** (2011.01); **H04N 7/173** (2006.01); **H04N 7/18** (2006.01)

IPC 8 main group level

**H04H 1/00** (2006.01)

CPC (source: EP US)

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Cited by

DE4245023B4; GB2290431A; GB2290431B; US5483277A; FR2677471A1; US5861881A; DE4228753B4; EP0449126A3; US5313408A; EP0910218A3; EP0912059A3; GB2283398A; EP0613600A4; EP0826287A4; EP1098532A3; EP1098533A3; EP1098534A3; EP1100276A3; USRE48579E; US7196722B2; US10349096B2; US10140433B2; US9813641B2; US10205998B2; WO9222049A1; US10856031B2; US11076190B2; US11477506B2; US11575955B2

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**EP 88402701 A 19881026**; AT 88402701 T 19881026; AU 1631588 A 19880517; CA 564480 A 19880419; CA 616676 A 19930602; DE 3889421 T 19881026; ES 88402701 T 19881026; JP 27059788 A 19881026; US 11301787 A 19871026